



# An Introduction to Classical Electromagnetic Radiation

*Glenn S. Smith*

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## **An Introduction to Classical Electromagnetic Radiation** Glenn S. Smith

A fundamental and thorough description of classical electromagnetic radiation, this book is a balance of physical and mathematical explanation and includes over 300 illustrations. Starting from Maxwell's equations, the author demonstrates how fundamental concepts are applied in a wide variety of examples from areas such as classical optics, antenna analysis, and electromagnetic scattering. An interweaving of theoretical and experimental results gives insight into the physical and historical foundations of the subject. The book gives equal footing to the radiation of pulses and the more conventional time harmonic signals. With more than 140 problems, it can be used as a textbook for advanced undergraduate and graduate courses in electrical engineering and physics, and will also be of interest to scientists and engineers working in applied electromagnetics. A solutions manual is available for instructors.

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